

PATENT  
Attorney Docket No. 206441

2682  
#  
Jhw/B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

O'Neill et al

Group Art Unit: 2682

Application No. 09/623,303

Examiner: Trans, Pablo N.

Filed: December 14, 2000

For: CELLULAR TELEPHONE  
ARRANGEMENTS

INFORMATION DISCLOSURE STATEMENT

Mail Stop  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. The applicants note that the attached prior art was identified through independent searching related to the invention, but they consider the content of the references to be of less relevance than the prior art already before the Office. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

☐ **within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under

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37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

- ☒ **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:

☐ the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).

*or*

☒ the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).

- ☐ **after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

- ☐ **after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

### Copies of the References

- ☒ Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).

- ☐ Copies of the foreign search reports are enclosed herewith.

- ☐ The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s)

relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

| U.S. APPLICATIONS |                  | Status ( <i>check one</i> ) |         |           |
|-------------------|------------------|-----------------------------|---------|-----------|
| U.S. APPLICATIONS | U.S. FILING DATE | PATENTED                    | PENDING | ABANDONED |
| 1.                |                  |                             |         |           |
| 2.                |                  |                             |         |           |
| 3.                |                  |                             |         |           |

**Statement under 37 CFR 1.97(e)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

**Statement under 37 CFR 1.704(d)**

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

**Fees**

- ☐ No fee is owed by the applicant(s).
- ☒ The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

**Method of Payment of Fees**

- ☐ Attached is a check in the amount of \$ .
- ☒ Charge Deposit Account No. 12-1216 in the amount of \$180.00. (A duplicate copy of this communication is enclosed for that purpose.)


In re Appln. of O'Neill et al.  
Application No. 09/623,303

**Authorization to Charge Additional Fees**

- ☒ If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

**Instructions as to Overpayment**

- ☒ Credit Account No. 12-1216.  
☐ Refund

  
\_\_\_\_\_  
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Date: October 8, 2004

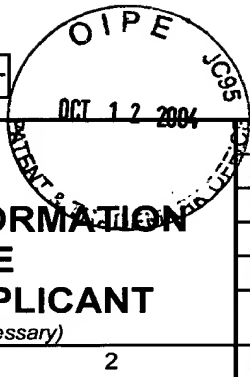
**CERTIFICATE OF MAILING**

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop , Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: \_\_\_\_\_

  
\_\_\_\_\_

Please type a plus sign (+) inside this box →



Substitute for form 1449A/B/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 09/623,303        |
| Filing Date            | December 14, 2000 |
| First Named Inventor   | O'Neill           |
| Group Art Unit         | 2682              |
| Examiner Name          | Tran, Pablo N.    |
| Attorney Docket Number | 206441            |

Sheet 1 of 2

## **U.S. PATENT DOCUMENTS**

| Examiner<br>Initials | Doc.<br>No. | U.S. Patent Document            |           | Name of Patentee or Applicant | Date of<br>Publication | Filing Date If<br>Appropriate |
|----------------------|-------------|---------------------------------|-----------|-------------------------------|------------------------|-------------------------------|
|                      |             | Application or<br>Patent Number | Kind Code |                               |                        |                               |
|                      | AM          | 5,926,145                       |           | Honma                         | Jul. 20, 1999          | Jul. 22, 1997                 |
|                      | AN          | 5,673,886                       |           | Negishi                       | Oct. 7, 1997           | Aug. 30, 1996                 |
|                      |             |                                 |           |                               |                        |                               |
|                      |             |                                 |           |                               |                        |                               |

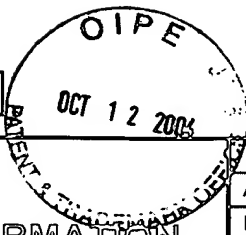
## **FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials | Doc.<br>No. | Foreign Patent Document |                                 |              | Name of Patentee or Applicant | Date of Publication | Translation |      |
|----------------------|-------------|-------------------------|---------------------------------|--------------|-------------------------------|---------------------|-------------|------|
|                      |             | Office                  | Application or<br>Patent Number | Kind<br>Code |                               |                     | Yes         | No** |
|                      | AO          | JP                      | 4223724                         |              | Tsuneichi                     | Aug. 13, 1992       | X           | +    |
|                      | AP          | JP                      | 10041873                        |              | Honma                         | Feb. 13, 1998       |             | +    |
|                      | AQ          | EP                      | 0 875 956                       |              | Negishi                       | Nov. 4, 1998        |             |      |
|                      | AR          | EP                      | 0 688 040                       |              | Hori et al.                   | Jun. 9, 1995        |             |      |
|                      | AS          | WO                      | 96/11352                        |              | Goodwin                       | Apr. 18, 1996       |             |      |
|                      |             |                         |                                 |              |                               |                     |             |      |
|                      |             |                         |                                 |              |                               |                     |             |      |

## **OTHER - NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials | Doc.<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published. | Translation |      |
|----------------------|-------------|--|-------------|------|
|                      |             |  | Yes         | No** |
|                      | AT          | Irish oppose orange progression, Digital Cellular Report, December 18, 1997, vol. 3, no. 25, Phillips Business Information, Inc.   |             |      |
|                      | AU          | P. CONSTANTINOU, Mobile Communication, Channel Modelling, British Telecommunications Engineering Journal, August 1990, pages 84-5, vol. 19, Unwin Brothers Limited, Great Britain.   |             |      |
|                      | AV          | B. GUDMUNDSON et al., Handoff in Microcellular Based Personal Telephone Systems, Third Generation Wireless Information Networks, 1992, pages 187-203, Kluwer Academic Publishers.  |             |      |
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|                      | AY          | D.C. SMITH, Mobility for the masses; personal communication services, Telephony, August 2, 1993, vol. 225, no. 5, page 28, Information Access Company and Intertec Publishing Company.   |             |      |
|                      | AZ          | F.K. GORYANCE, The Changing Landscape of Cell Sites, Cellular Business, May 1994, vol. 11, no. 5, pages 20-28, Intertec Publishing Corp., Overland Park KA.  |             |      |
|                      | BA          | M. WANG et al., Projecting the Growth of Cellular Communications, Communications of the ACM, October 1995, vol. 38, no. 10, page 119, Information Access Company and Association for Computing Machinery, Inc.   |             |      |
|                      | BB          | B. SUSNJARA, Lake Forest Eyes Future of Telecommunications, News Sun, April 9, 1996, page A1, UMI Inc., Waukegan, Illinois.  |             |      |
|                      | BC          | Samsung Designs Pico Base Station For Cheap Deployment, Radio Communications Report, January 19, 1998, page 3, Crain Communications, Inc.  |             |      |

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Substitute for form 1449A/B/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|       |   |    |   |                        |                   |
|-------|---|----|---|------------------------|-------------------|
| Sheet | 2 | of | 2 | Application Number     | 09/623,303        |
|       |   |    |   | Filing Date            | December 14, 2000 |
|       |   |    |   | First Named Inventor   | O'Neill           |
|       |   |    |   | Group Art Unit         | 2682              |
|       |   |    |   | Examiner Name          | Tran, Pablo N.    |
|       |   |    |   | Attorney Docket Number | 206441            |

## **OTHER - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials | Doc. No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published. | Translation |      |
|-------------------|----------|--|-------------|------|
|                   |          |  | Yes         | No** |
|                   | B D      | S. MAREK, More than meets the eye; designs of cellular radio transmission sites, Cellular Marketing, June 1993, vol. 8, no. 6, page 32, Information Access Company and Cardiff Publishing Company.   |             |      |
|                   | B E      | Good Communication Would Benefit Cellular Site Debate; Compromises Between Open Space, Technical Needs is Key, Los Angeles Times, Metro, part B, page 19, Times Mirror Company, Ventura County, California.  |             |      |
|                   | B F      | J. MEYERS, Tales of the City, Telephony, Wireless Networks, July 7, 1997, Primedia Business Magazines and Media, Inc.  |             |      |
|                   | B G      | I. SYMINGTON, A Race for Freedom, Communications International, October 1990, vol. 17, no. 10, pages 49-51, Periodical Publishers Association, International Thompson Publishing, Ltd., England.   |             |      |
|                   | B H      | V. ERCEG, Microcell Size and Architecture Analysis From the Propagation and Capacity Points of View, IEEE 44th Vehicular Technology Conference, June 8-10, 1994, vol. 1, pages 215-219, Stockholm, Sweden.   |             |      |
|                   | B I      | R. HALL et al., Modeling and Design of Circularly-Polarized Cylindrical Wraparound Microstrip Antennas, IEEE Antennas and Propagation Society International Symposium Digest, July 21-26, 1996, pages 672-5, Vol. 1, Baltimore, MD.                              |             |      |
|                   | B J      | R. DESLOGE, Zoning issues: The latest cross to bear for wireless firms, St Louis Business Journal, April 28, 1997, vol. 17, no. 33, page 10B, UMI, Inc., St. Louis, Missouri.  |             |      |
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|                   | B L      | P. MATTHIAS, Micro cell sites proposed, The Press (Christchurch), December 3, 1997, page 4, The Christchurch Press Company Limited.  |             |      |
|                   | B M      | J.E. GUYETTE, Wireless modems landing at airports, Automatic ID News, August 1997, page 40, Adavanstar Communications Inc., and Information Access Company.  |             |      |
|                   | B N      | E.V. MOONEY, Success in Seattle leads Metricom System to DC, RCR Radio Communications Report, September 9, 1996, vol. 15, no. 36, page 19, Responsive Database Services, Inc. and Crane Communications, Inc.   |             |      |
|                   | B O      | R. LEYSHON, Millimeter Technology Gets a New Lease on Life, Microwave Journal, March 1992. vol. 35, no. 3, pages 26, 28, 30, 32 and 35, Horizon House.   |             |      |
|                   |          |  |             |      |
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|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).